## **Assessment Test 3**

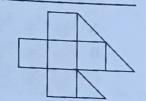
Allow 10 minutes to do Section A and 25 minutes to do Section B. Work as quickly and as carefully as you can.

Work as quite work as quite work as questions from our website — go to you can print multiple-choice answer sheets for these questions from our website — go to You can print had consider the constraint of the www.cgplearmog. www.cgplearmog

## Section A — Quick Maths

You have 10 minutes to complete this section. There are 30 questions in this section.

Each of the small squares in the shape on the right has an area of 1 cm<sup>2</sup>. What is the total area of the shape?



Which unit is most suitable for measuring the length of a football pitch?

A centimetres

C metres

cm<sup>2</sup>

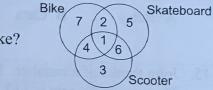
millimetres

D kilometres

> Vehicle type Number of vehicles Car Van = 4 Bus Taxi

Elsa counts the vehicles that pass her school during her lunchtime. The pictogram shows her results. How many buses did she see?

The Venn diagram on the right shows how many children in a class have bikes, skateboards and scooters. How many children have a skateboard and a scooter, but not a bike?



5. Which of the shapes to the right has exactly one pair of parallel sides?





6. Robert is meeting a friend at 13:45. What is this time written in the 12-hour clock?

A 1:45 pm

B 2:45 am

C 1:45 am

**D** 3:45 pm

E 2:45 pm

7. How many lines of symmetry does a regular octagon have?

A 2

C 6 D 8

E 10

This chart shows the number of boys and girls in each year group in a school. How many children are in the biggest year group?

Year Group	Boys	Girls
2	49	50
3	52	56
4	55	57
5	54	59
6	35	54

Isla works out that  $90 \times 80 = 7200$ . What is  $90 \times 0.08$ ?



Carry on to the next question  $\rightarrow \rightarrow$ 

pm

km

Carry on to the next question →

19. Sarah has run a total distance of 168 km over a 12 week period.

How far does she run each day if she runs the same distance each day?

## Section B — Long Maths

You have 25 minutes to complete this section. There are 30 questions in this section.

The shape on the grid is reflected in the mirror line. What are the coordinates of the image of point B?



B (3, -2)

C(1,-3)

D(2,-2)

E(-1, -3)

The ages in months of four out of six babies at a clinic are given below.



The mean age of all the babies is 5 months. Which of the following could be the ages in months of the fifth and sixth babies?

A 8 and 12

**B** 1 and 2

C 3 and 8

**D** 11 and 12

E 3 and 4

James records the weather for 20 days. He draws a pie chart of his results.

It was foggy for 3 days. What size angle should he draw to represent this?

A 90°

B 54°

C 36° D 45° E 180°

James draws an angle of 108° to correspond to the number of days on which it rained. Out of the 20 days James recorded, on how many did it rain?



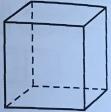
Veronica has an empty cardboard box which is shaped like a perfect cube.

What is the sum of the numbers of faces, edges and vertices of the box?



6. The volume of the cube is 216 cm<sup>3</sup>. What is the length of one edge?





A printer uses the following formula to work out the cost, C, in pounds, of printing m leaflets:

$$C = 15(m \div 100) + 5.$$

How much will it cost, in pounds, to have 300 leaflets printed?



8. Caleb pours  $\frac{2}{5}$  of a litre of water out of a full 10 litre bucket. How many millilitres are left in the bucket?

A 9500 ml

B 9600 ml

C 600 ml D 9400 ml

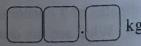
E 400 ml

Ben is mixing feed for rabbits. The recipe states to mix 1 part of vegetables to 3 parts of hay and 5 parts of rabbit flakes by weight.

9. Ben makes a mix using 7.5 kg of rabbit flakes. How many kg of hay will he need?



10. Ben makes another mix which has 3.5 kg of vegetables in it. What is the total weight of this mix in kilograms?



Carry on to the next question →

paul is a fell yhidi. He records his results on a bar graph.
60
How many children used the ferry on the first 3 days of the week?  How many more children than
12. How many more children than adults used the ferry that week?    Tuesdam   Tuesdam   Thursdam   Ficham   Saturdam   Sundam   S
13. On which day did twice as many adults use the ferry as children?  A Monday B Tuesday C Wednesday D Thursday E Friday F Saturday G Sunday
14. On the day that the ferry had the fewest passengers, how many children used it?
To the right is a hopscotch grid. The sum of the numbers on the grid is 55.  The grid is extended so that the greatest number at the top of the grid is 20.
15. What is the sum of all the numbers on the extended grid?
16. Once the hopscotch grid has been extended to 20, how many prime numbers are written on the grid?
17. How many degrees does the minute hand on a clock turn through between 12 noon and 10:30 pm?
<b>A</b> 3160° <b>B</b> 3780° <b>C</b> 2300° <b>D</b> 2430° <b>E</b> 3600°
18. Rashid gets £2.50 pocket money each week. He is given an extra 30% pocket money if he cleans the family car. How much money will he receive over 3 weeks if he cleans the car each week?
The diagram shows Tamara's garden.  19. What is the area of the lawn?    Mathematical Control of the lawn   19.
20. It takes 5 minutes for Tamara to mow 4 m <sup>2</sup> of lawn.  How long will it take her, in hours and minutes, to mow this lawn?  hour(s)  minutes  8 m  Flower 3 m  bed  4 m  where 4 m  shour(s)
<ol> <li>Ian buys 6 sandwiches costing £1.99 each and 3 drinks costing 49p each.         He does this calculation to estimate the cost: 6 × £2 + 3 × £0.50         How does his estimate differ from the exact cost?         A £12 too much         C 12p too little         E 6p too much</li> </ol>
B 9p too much $D$ 9p too little $C$ arry on to the next question $\rightarrow \rightarrow$

22. Sleeping bags are given a rating to show the minimum

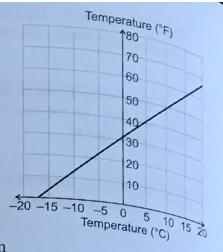
temperature they can be used at:

temperature they can be	To	3	4	5
Sleeping bag rating 1	1-2	-5	-10	-15
Minimum temperature (°C) 5	10	1-0	OT	
Minimum temperature			at 25 %	1

Adam needs to buy a sleeping bag that he can use at 25 °F. The graph on the right can be used to change a temperature in °F

to a temperature in °C.

What is the lowest rating of sleeping bag he can buy?



Susan has a bag containing 60 marbles. 25% of them are red, 30% of them are blue and 15% of them are green. The remaining marbles are yellow.

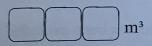
- 23. How many yellow marbles are in the bag?
- 24. What fraction of the marbles in the bag are green?

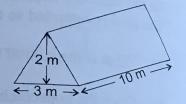
**A**  $\frac{1}{4}$  **B**  $\frac{5}{6}$  **C**  $\frac{3}{20}$  **D**  $\frac{1}{10}$  **E**  $\frac{1}{5}$ 

25. Heather is packing a tent to take on holiday and wants to work out how big it is inside. She chooses to model it as a regular triangular prism.

Volume of a triangular prism = area of triangular side × length

What is the volume of Heather's tent?





26. A school holds a concert. There are 42 rows of 48 seats. How many seats are there?



27. This table shows the number of children in 6 different classes. What is the mean number of children?

Class	6A	6B	6C	6D	6E	6F
Number of children	16	16	11	17	12	12

28. On Saturday April 23rd, Claire's father tells her that it is 6 weeks until they go on holiday. They are going on holiday on a Saturday. What date will this be?

A 1st June

B 2nd June

C 3rd June

D 4th June

E 5th June

Russell wins £500 in a prize draw.

29. He spends £260 on a new computer, and decides to buy some games that cost £39.99 each. Which expression gives the amount of money Russell will have left if he buys n games?

A 240n

B 500 - 260n

C 240 + 39.99n

D 240 - 39.99n

E 500 - 39.99n

30. What is the highest number of computer games Russell can buy from his winnings, after purchasing his new computer?

